BELKIN®

Cable Specifications	
Part Family	**A7J704**
Description	**CAT 6 High Performance UTP Stranded Cable**

Standards Compliance	ISO/IEC 11801 TIA/EIA-568-B.2-1

Construction		
Conductor	Size	24AWG x 4pairs
	Construction	Bare Stranded Copper
	Conductor Diameter	7.0 / 0.210±0.008mm
Insulation	Ave. Thick.	0.195mm
	Min. Thick	0.180mm
	Diameter	1.010±0.020mm
	Material	HDPE
	Color Codes	1. Blue x White/Blue
		2. Orange x White/Orange
		3. Green x White/Green
		4. Brown x White/Brown
Jacket	Ave. Thick.	0.55mm
	Min. Thick	0.51mm
	Diameter	5.50±0.20mm
	Material	PVC

Electrical & Physical Properties	
Item	24AWG x 4pairs
Rating	75°C, 300V
Conductor Resistance	93.8Ω/km/20°C max
Mutual Capacitance	56pF/m max
Dielectric Strength	AC 1.5kV/min
Spark Test	2.5kV
Flame Retardant Test	CMR
Characteristic Impedence	100±15Ω @ 1 ~ 550MHz
Structural Return Loss	8.6dB min at 550MHz
Propagation Delay	536nS/100m max @ 550MHz
Delay Skew	30nS/100m max at 1 ~ 550MHz

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Electrical Performance								
Frequency	Attenuation / Insertion Loss (min)	NEXT (min)	ACR (min)	PSNEXT (min)	PSACR (min)	ELFEXT (min)	PSELFEXT (min)	Return Loss (min)
(MHz)	(dB/100m)	(dB)	(dB)	(dB)	(dB)	(dB/100m)	(dB/100m)	(dB)
1.0	2.4	75.3	72.9	73.3	70.9	67.8	64.8	20.0
4.0	4.6	66.3	61.7	64.3	59.7	55.7	52.7	23.0
8.0	6.5	61.8	55.3	59.8	53.3	49.7	46.7	24.5
10.0	7.2	60.3	53.1	58.3	51.1	47.8	44.8	25.0
16.0	9.1	57.3	48.2	55.3	46.2	43.7	40.7	25.0
20.0	10.2	55.8	45.6	53.8	43.6	41.7	38.7	25.0
25.0	11.5	54.3	42.8	52.3	40.8	39.8	36.8	24.2
31.3	12.9	52.9	40.0	50.9	38.0	37.9	34.9	23.3
62.5	18.6	48.4	29.8	46.4	27.8	31.8	28.8	20.7
100.0	23.9	45.3	21.4	43.3	19.4	27.8	24.8	19.0
155.0	30.4	42.5	12.1	40.5	10.1	23.9	20.9	18.2
200.0	35.0	40.8	5.8	38.8	3.8	21.7	18.7	16.4
250.0	39.6	39.3	0.0	37.3	N.A	19.8	16.8	15.6
300.0	43.9	38.2	N.A	36.2	N.A	18.2	15.2	14.9
400.0	51.9	36.3	N.A	34.3	N.A	15.7	12.7	13.8
550.0	62.4	34.2	N.A	32.2	N.A	12.9	9.9	12.6